| 1  | UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF OHIO     |
|----|--|
| 2  | WESTERN DIVISION   |
| 3  | LUANN PARKER,  |
| 4  | Plaintiff,   |
| 5  | vs. CIVIL ACTION NO. C-1-00-766                            |
| 6  | AVENTIS S.A., et al.,                                      |
| 7  | Defendants.  |
| 8  |  |
| 9  |  |
| 10 | DEPOSITION OF: DAVID A. GRIESEMER                          |
| 11 |  |
| 12 | DATE: July 15, 2003  |
| 13 | TIME: 9:19 a.m.  |
| 14 |  |
| 15 | 1104 Isle of Palms Connector<br>Mount Pleasant, SC         |
| 16 |  |
| 17 | TAKEN BY: Counsel for the Defendants                       |
| 18 |  |
| 19 | Court Reporter   |
| 20 |  |
| 21 | A. WILLIAM ROBERTS, JR., & ASSOCIATES                      |
| 22 | Charleston, SC Columbia, SC (843) 722-8414 (803) 731-5224  |
| 23 |  |
| 24 | Greenville, SC Charlotte, NC (864) 234-7030 (704) 537-3919 |
| 25 |  |
|    |  |

A. WILLIAM ROBERTS, JR., & ASSOCIATES (800) 743-DEPO

2

| 1  | APPEARANCES OF COUNSEL:                                   |
|----|---|
| 2  | ATTORNEYS FOR THE PLAINTIFF LUANN PARKER:                 |
| 3  |   |
| 4  | MCKINNEY & NAMEI CO., L.P.A. BY: FIROOZ T. NAMEI          |
| 5  | 15 East Eighth Street Cincinnati, OH 45202 (513) 721-0200 |
| 6  | (513) 721-0200  |
| 7  | ATTORNEYS FOR THE DEFENDANT AVENTIS PASTEUR, INC.:        |
| 8  | SHUMAKER, LOOP & KENDRICK, LLP<br>BY: JOHN J. SICILIANO   |
| 9  | North Courthouse Square 1000 Jackson                      |
| 10 | Toledo, OH 43624  |
| 11 | (419) 241-9000 (INDEX AT REAR OF TRANSCRIPT)              |
| 12 | (INDEX AT REAR OF TRANSCRIET)                             |
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3

- 1 STIPULATION
- 2 It is stipulated by and between Counsel
- 3 that this deposition is being taken in accordance
- 4 with the Federal Rules of Civil Procedure; that all
- 5 objections as to Notice of this deposition are
- 6 hereby waived; that all objections except as to
- 7 form are reserved until the time of trial; and that
- 8 the witness does not waive reading and signing of
- 9 this deposition.
- 10 \* \* \* \* \* \* \* \* \* \* \*
- 11 DAVID A. GRIESEMER
- 12 being first duly sworn, testified as follows:
- MR. SICILIANO: For the record, we are
- 14 here today for the deposition of David A.
- 15 Griesemer, M.D. taken in this case pursuant to
- 16 agreement of the parties; is that correct?
- MR. NAMEI: Yes.
- 18 EXAMINATION
- 19 BY MR. SICILIANO:
- 20 Q. And am I pronouncing your name right,
- 21 Griesemer?
- 22 A. Griesemer.
- Q. Griesemer. Why don't you introduce
- 24 yourself and state your name for the record.

- 25 A. My name is David Griesemer.
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- 1 Q. And where do you live?
- 2 A. In Mount Pleasant, South Carolina.
- 3 Q. What is your business address?
- 4 A. Department of Neurology, Medical
- 5 University of South Carolina, 96 Jonathan Lucas
- 6 Street, Charleston, South Carolina, 29425.
- 7 Q. What are your present duties as a
- 8 doctor at the medical college of South Carolina?
- 9 A. I work as a clinician at the Medical
- 10 University seeing patients for a portion of my
- 11 time. I'm al -- I'm also chairman of the
- 12 Department of Neurology, so I have administrative
- 13 and teaching responsibilities associated with that.
- Q. What courses do you teach presently?
- 15 A. I participate in teaching of the
- 16 first-year medical neurosciences course. I also
- 17 participate in teaching in the third-year core
- 18 neurology rotation. I'm also responsible for
- 19 teaching neurology residents who have already
- 20 earned their MD degree, and, under special
- 21 circumstances, I'll also be responsible for
- 22 teaching pediatric residents, psychiatry residents
- 23 or other subspecialists rotating through the

- 24 neurology service.
- Q. Do you have any teaching roles where
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- 1 you are the primary professor for a particular
- 2 class?
- 3 A. No.
- 4 Q. Have you ever had that?
- 5 A. No, that's not typically the case for
- 6 clinicians who usually work one-on-one alongside a
- 7 resident or student in training at the bedside.
- 8 Q. You say you also have a role as a
- 9 clinician.
- 10 A. Yes.
- 11 Q. Tell me what that means. What do you
- 12 do?
- 13 A. What it means is that, one day each
- 14 week, I'm in an outpatient setting seeing patients.
- 15 It also means that I take my equitable share of
- 16 supervising the residents in their continuity
- 17 clinic as they see their patients. It means that,
- 18 for three to four months out of the year, I'm on
- 19 the inpatient consult attending service, you know,
- 20 responding to requests for consultation by other
- 21 physicians at the university hospital.
- Q. What other duties do you have?

- MR. NAMEI: Isn't that enough?
- 24 THE WITNESS: Those that I've mentioned
- 25 really occupy most of my time.
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- 1 BY MR. SICILIANO:
- Q. Most of your time? Okay. We're here
- 3 today because you're acting as an expert on behalf
- 4 of the Plaintiff in this case. Can you tell me how
- 5 often do you do that, that is, provide
- 6 medical/legal consultation?
- 7 A. I provide medical/legal consultation
- 8 probably about a dozen times a year in terms of
- 9 reviewing records for either the plaintiff or
- 10 defense or prosecution or the defense, the claimant
- 11 or the respondent. Perhaps half of those may go to
- 12 deposition, and a small percentage of those may go
- 13 to trial.
- 14 Q. Can you give me a sort of a percentage
- of how many of those medical/legal cases you were
- 16 involved in -- you have been involved in involved
- 17 civil litigation versus criminal litigation?
- 18 A. I would say that probably 40 percent of
- 19 the cases are malpractice-related, 40 percent are
- 20 other civil matters and 20 percent are criminal.
- Q. Of the other civil matters, what kind

- 22 of cases do you handle?
- 23 A. These would be patients who may have
- 24 sustained neurologic injury through -- through
- 25 trauma, exposure to a product, some other
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- 1 misadventure.
- 2 Q. Can you tell me, of the cases that you
- 3 have handled in the civil arena, how many of them
- 4 have been for the defense?
- 5 A. I don't recall specifically, but I
- 6 would say they're probably evenly divided for
- 7 plaintiff and defense with the possible exception
- 8 of some involvement I've had with litigation
- 9 related to lead toxicity in children and that's
- 10 more heavily weighted toward the plaintiff.
- 11 Q. Have you been involved in a number of
- 12 lead toxicity cases?
- 13 A. Yeah, probably half a dozen over the
- 14 years.
- 15 Q. Going over the past five years, can you
- 16 tell me, in those cases that you have been
- 17 consulting on behalf of plaintiffs or defendants,
- 18 what products, if products were involved, were
- 19 involved in those kinds of litigations?
- 20 A. The two that come to mind, one product

- 21 was an ephedra compound produced by Rexall. The
- 22 other was a -- was Prozac marketed by Lilly.
- Q. Well, let's talk about the ephedra
- 24 compound. What did that case or those cases
- 25 involve?
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- 1 A. This was a circumstance in which a
- 2 woman expired after -- after her family claimed she
- 3 had had exposure to ephedra. And, you know, there
- 4 were a variety of compounding circumstances in the
- 5 case.
- 6 Q. And you testified on behalf of Rexall
- 7 or the --
- 8 A. On behalf of the defense, yes.
- 9 Q. How did neurology play a role in that
- 10 case?
- 11 A. Because the event was a stroke, and,
- 12 while most of the literature relates to cardiac
- 13 complications, the issue was whether this was
- 14 related.
- 15 Q. Have you ever handled an or consulted
- on any ephedra case for the plaintiff?
- 17 A. No.
- 18 Q. Let's talk about the Prozac. Did you
- 19 consult on behalf of the plaintiff or the defendant

- 20 in the Prozac litigation?
- 21 A. On the defense.
- 22 Q. That was for Eli Lilly?
- 23 A. Yes.
- Q. What did those cases involve?
- 25 A. This was the case of a boy with
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- 1 Tourette's syndrome who had committed suicide in
- 2 the context of being placed on Prozac.
- 3 Q. And I take it your opinion was the
- 4 Prozac did not cause the individual to commit
- 5 suicide?
- A. That's correct.
- 7 Q. Approximately how many cases have you
- 8 handled on behalf of Eli Lilly?
- 9 A. As far as I know, that was the only
- 10 one.
- 11 Q. And the same question with regard to
- 12 Rexall --
- 13 A. The only --
- 14 Q. -- just one?
- 15 A. Yes.
- 16 Q. Have you ever testified or consulted on
- 17 any vaccine cases?
- 18 A. Yes.

- 19 Q. Which cases were those and what
- 20 vaccines were involved?
- 21 A. I don't have a clear or accurate
- 22 recollection. There were a series of perhaps a
- 23 half dozen cases in the early 1990s that were
- 24 brought to a hearing under the National Vaccine
- 25 Injury Act, and my recollection is these involved
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- 1 DPT and MMR vaccinations.
- 2 Q. And were you engaged by the petitioners
- 3 or the plaintiffs in that case?
- A. Probably 80 percent of the time, I
- 5 represented the petitioner and about 20 percent of
- 6 the time representing the respondent.
- 7 Q. In general, what was your opinion on
- 8 those kinds of cases?
- 9 A. I don't know that I had a general
- 10 opinion, it depended on the specifics of the case.
- 11 Some of them I felt were meritorious claims, and
- 12 some of them I felt were not.
- Q. Do you remember -- let's just talk
- 14 about the DPT cases -- what kind of injuries the
- 15 child had that you claimed would have been --
- A. No, I'm sorry.
- 17 Q. -- related to the DPT?

- 18 A. I don't recall. My long-term memory is
- 19 not that good, and I didn't review those in
- 20 preparation for today's deposition.
- 21 Q. Approximately how many depositions have
- 22 you given over the last ten years?
- 23 A. I don't know exactly. I would estimate
- 24 maybe 40 to 50, perhaps four or five a year. That
- 25 could be high, I'm not sure.

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11

- 1 Q. Have you ever consulted with either
- 2 defense or plaintiffs in connection with an
- 3 influenza vaccine?
- 4 A. Not that I recall.
- 5 Q. So this is the first, to the best of
- 6 your knowledge?
- 7 A. I believe so, yes.
- 8 Q. Have you ever administered influenza
- 9 vaccine?
- 10 A. Not personally, no.
- 11 Q. Have you ever prescribed it?
- 12 A. I've recommended it, and I've received
- 13 it.
- 14 Q. In what context have you recommended
- 15 it?
- 16 A. I usually recommend it to higher-risk

- 17 patients who may be particularly vulnerable to the
- 18 effects of -- of getting influenza. The patients I
- 19 follow regularly tend to be patients with epilepsy
- 20 and that may be a particularly vulnerable
- 21 population. So typically, my more fragile
- 22 patients, I'll recommend they consider a vaccine.
- Q. Do you have any opinions about the
- 24 effectiveness of influenza vaccine?
- 25 A. I don't have any opinions apart from
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- 1 what's available in the general medical literature.
- 2 I think that, on the whole, I find them beneficial.
- 3 Q. Why did you take influenza vaccine?
- 4 A. Because I don't like getting the flu.
- 5 Q. Has any of your -- have any of your
- 6 family members received the influenza vaccine?
- 7 A. Not that I'm aware of. I'm the one
- 8 who's primarily in a patient-related environment,
- 9 more at risk because of my job.
- 10 MR. SICILIANO: Let's mark this as an
- 11 exhibit.
- 12 (DFT. EXH. 1, Curriculum Vitae, was
- marked for identification.)
- 14 (Off-the-record conference.)
- 15 BY MR. SICILIANO:

- 16 Q. Doctor, I'm going to hand you what has
- 17 been marked as Defendant's Exhibit Griesemer 1 and
- 18 ask you to identify that for the record, please.
- 19 (Tendering)
- 20 A. It looks like a copy of my current CV.
- Q. And I'm just going to go over parts of
- 22 it with you. Why don't you just briefly tell us
- 23 about your educational history and then your
- 24 professional history after med school.
- 25 A. All right. I received my undergraduate
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- 1 degree in human biology from Johns Hopkins in 1973.
- 2 I received my MD from Hopkins in 1976. I remained
- 3 there for two years as an intern and resident in
- 4 pediatrics.
- 5 At that point, I interrupted my formal
- 6 studies and took a position with the U.S. Public
- 7 Health Service. I spent four years in Northern
- 8 Arizona on the Navaho and Hopi Indian Reservation
- 9 as a general medical officer, delivered babies, set
- 10 fractures, taking care of myocardial infarctions.
- 11 After four years, I decided to continue
- 12 my training, and I went to the University of
- 13 Michigan where I did three years of training in
- 14 neurology, making me board eligible in neurology

- 15 with special competence in child neurology.
- 16 From there, I returned to Northern
- 17 Arizona and established a private practice in
- 18 Prescott where I worked for four years. After that
- 19 experience, I moved to Tucson and, in Tucson, took
- 20 a position on the faculty of the University of
- 21 Arizona. So that was the beginning of my academic
- 22 career, and I believe that was in 1990.
- In 1993, I moved from the University of
- 24 Arizona to the Medical University of South
- 25 Carolina, and I've been here since then, starting
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- 1 as an assistant professor, moving up to associate
- 2 professor, then associate professor with tenure and
- 3 then a full professor. I became chairman of the
- 4 department in 2000.
- 5 Q. Looking at your CV, it appears that you
- 6 have a specialty in -- is it pediatric neurology?
- 7 A. Yes.
- 8 Q. Are the patients that you treat in the
- 9 clinics that you run or participate in more focused
- 10 on children?
- 11 A. Yes, they are.
- 12 Q. Do you treat adults?
- 13 A. Yes.

- Q. How often do you treat adults?
- 15 A. It -- it depends on the circumstances.
- 16 Sometimes I will follow adults with epilepsy in my
- 17 clinics. When I'm supervising residents in their
- 18 continuity clinic, I'm responsible for evaluating
- 19 and treating adult patients. When I do outreach
- 20 into the developmental centers throughout the
- 21 state, those are patients of all ages, but, because
- 22 of their profound handicap, are most comfortably
- 23 cared for by pediatric neurologists.
- 24 Typically, adult neurologists like to
- 25 be able to talk to their patients, and so the
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- 1 pediatric neurologist oftentimes has some special
- 2 skills in dealing with noncommunicative patients.
- 3 So the majority of my patients are pediatric
- 4 neurology patients, but I certainly teach and
- 5 supervise the care of adult patients as well.
- 6 Q. You have, according to your CV, written
- 7 articles, given speeches and done -- and done some
- 8 publications in the electronic media. Have you
- 9 ever written any article concerning acute
- 10 disseminated encephalomyelitis?
- 11 A. No.
- 12 Q. Have you ever studied -- and I'm just

- 13 going to refer to this as -- ADEM?
- 14 A. In terms of a scientific study or a
- 15 patient-related study, no.
- Q. What's your familiarity with ADEM in
- 17 your practice?
- 18 A. My familiarity with it is as a disorder
- 19 that I diagnose and see in my patients from time to
- 20 time. ADEM is something that is more commonly seen
- 21 in children than in adults, so pediatric
- 22 neurologists tend to have perhaps a greater
- 23 familiarity with it than adult neurologists have.
- I would say I have no particular
- 25 expertise concerning ADEM that exceeds that of any
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- 1 good neurologist with a broad exposure to clinical
- 2 disorders.
- 3 Q. Are you associated with any expert
- 4 groups at all?
- 5 A. I have allowed my name to be listed
- 6 with Park Dietz Associates.
- 7 Q. Spell that for me.
- 8 A. Park is P-A-R-K, Dietz is D-I-E-T-Z,
- 9 Associates. Dr. Dietz is a psychiatrist who was a
- 10 friend of mine in medical school, and he has
- 11 assembled a consultative team of people involved in

- 12 primarily criminal forensic matters. And while his
- 13 group is primarily weighted towards psychiatrists
- 14 and psychologists, I agree, from time to time, to
- 15 serve as a neurologic consultant for that group.
- Q. Where are they located?
- 17 A. California.
- 18 Q. How often do you receive referrals from
- 19 the Park Dietz Associates?
- 20 A. Probably once a year. I tend to
- 21 decline more referrals than I accept simply because
- 22 of other demands on my time.
- 23 Q. And you indicated that that's primarily
- 24 criminal?
- 25 A. Yes.
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- 1 Q. Defense related?
- 2 A. In the two cases I'm thinking of, I've
- 3 been retained by the prosecution or the U.S.
- 4 Attorney's office.
- 5 Q. I see that you have some publications
- 6 on your CV that are listed as peer review journals
- 7 and some that are non-peer reviewed publications.
- 8 Could you explain the differences there?
- 9 A. Peer reviewed articles tend to be
- 10 original scientific works that are submitted to a

- 11 journal and sent out for review by experts in the
- 12 field, and, based upon the reviewers' comments, the
- 13 editors decide whether or not to accept or deny
- 14 publication of the journal article.
- Non-peer reviewed articles can be of
- 16 varied nature, but, for the most part, they're
- 17 articles that are prepared at the request of an
- 18 editor, and the review is done by the editor
- 19 himself or herself before they're brought into
- 20 publication. Typically, those are review articles
- 21 or summary articles rather than original research.
- Q. And I think you've already testified to
- 23 this, but let's make sure that none of the articles
- 24 and none of the publications that you've
- 25 participated in or written involve ADEM?
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- 1 A. I believe that's correct.
- 2 Q. Tell me how you got involved in
- 3 consulting on this particular case involving Luann
- 4 Parker.
- 5 A. I received a call from Mr. Namei and
- 6 that was followed with a letter of February 15th,
- 7 2002.
- 8 MR. NAMEI: I think what I did was sent
- 9 him the Complaint, which is, you know, pretty

- 10 detailed about the medical history.
- 11 THE WITNESS: Right, I have a fax from
- 12 him dated February 14th with the Complaint. And
- 13 the following day, apparently he sent me these
- 14 medical records. (Indicating)
- MR. NAMEI: I have no problem if you
- 16 want to see that, those things. There is nothing
- 17 confidential in it.
- 18 MR. SICILIANO: Let's take a moment
- 19 just to take a quick look.
- 20 THE WITNESS: Okay. (Tendering)
- 21 MR. SICILIANO: I might mark a couple
- 22 of these, this one here. (Tendering)
- MR. NAMEI: That's a work product; you
- 24 can't mark that.
- MR. SICILIANO: You don't want me to
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- 1 look at that? Well, if he relied on it, I get to
- 2 ask him about it.
- 3 MR. NAMEI: Okay, that's fine. I don't
- 4 see this as any problem. Here, you want a copy?
- 5 You want to mark it? Go ahead.
- 6 MR. SICILIANO: I'm just going to go
- 7 ahead and mark it, and then what we'll do is, maybe
- 8 after the deposition, you can send me a copy of

- 9 this or maybe we'll leave it with you.
- 10 MR. NAMEI: Yes, we can attach it as
- 11 exhibit 2.
- MR. SICILIANO: That's fine.
- 13 (DFT. EXH. 2, Typewritten Notes, was
- 14 marked for identification.)
- 15 (Off-the-record conference.)
- 16 BY MR. SICILIANO:
- 17 Q. Doctor, I'm going to hand you what has
- 18 been marked as Defendant's Exhibit 2, and please
- 19 identify that for the record. (Tendering)
- 20 A. These are notes that I prepared for
- 21 myself summarizing the medical records after I
- 22 initially reviewed them.
- Q. Now, did you prepare those or did
- 24 Mr. Namei or someone in his office?
- 25 A. No, these are my notes prepared on my
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- 1 laptop.
- 2 Q. After reviewing medical records?
- 3 A. Yes, after reviewing these three
- 4 volumes of medical records. (Indicating)
- 5 Q. And for the record, the medical records
- 6 that you reviewed are contained in volumes one, two
- 7 and three, which are notebooks entitled Luann

- 8 Parker, Petitioner versus Secretary of Health and
- 9 Human Services, Respondent?
- MR. NAMEI: Yes.
- 11 BY MR. SICILIANO:
- 12 Q. Is that correct, Doctor?
- 13 A. Yes.
- Q. And there are three volumes of medical
- 15 records; is that correct?
- 16 A. Yes.
- 17 Q. And those medical records were sent to
- 18 you by Mr. Namei's office?
- 19 A. Correct.
- 20 Q. And did you review these medical
- 21 records?
- 22 A. Yes.
- 23 Q. And from those medical records, you
- 24 prepared a summary, which is Plaintiff's -- or
- 25 Defendant's Exhibit 2?
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- 1 A. I wouldn't pretend that this is a
- 2 comprehensive summary. These are just my notes to
- 3 jog my memory about the records.
- Q. Did you ever examine Luann Parker?
- 5 A. No.
- 6 Q. Have you ever spoken to her?

- 7 A. No.
- 8 Q. Did you ever review any original
- 9 diagnostic testing?
- 10 A. No.
- 11 Q. So it's correct to say that you didn't
- 12 review the original MRIs or CT scans or any of the
- 13 other diagnostic tests?
- A. Not to date, no.
- Q. Why don't you tell me, what is acute
- 16 disseminated encephalomyelitis, which we've been
- 17 calling ADEM?
- 18 A. It's a disorder that involves
- 19 demyelination in regions of the brain. It is a
- 20 disorder that is typically monophasic, meaning it's
- 21 got one phase to it, in distinction to a disorder
- 22 like multiple sclerosis that also involves
- 23 demyelination of the brain but has multiple
- 24 recurrent phases to it.
- 25 ADEM is typically a disorder that
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- 1 follows a viral infection or a vaccination. It
- 2 begins days to perhaps a week after the vaccination
- 3 or near the end of the viral infection. Because
- 4 different parts of the brain can be involved, the
- 5 clinical manifestations of the disorder are quite

- 6 varied.
- 7 Oftentimes, there is an involvement of
- 8 balance or coordination. There may be involvement
- 9 of alertness, coherence in thinking. There may be
- 10 focal neurologic signs such as numbness or
- 11 weakness. In a small percentage of cases, the
- 12 involvement may include the spinal cord, so there
- 13 may be disorders of extremity function or bladder
- 14 function related to spinal cord involvement.
- 15 It's a disorder that is diagnosed on
- 16 the basis of a clinical picture consistent with the
- 17 pathophysiology. It's also a diagnosis that is
- 18 usually not made until other items that may
- 19 resemble it have been satisfactorily ruled out.
- 20 Those other items may include an infectious
- 21 encephalitis, may include vasculitis, may include
- 22 multiple sclerosis, may include multiple strokes.
- 23 So typically, the diagnosis is one that
- 24 is arrived at after a fairly comprehensive look at
- 25 the patient and after a thoughtful reflection on
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- 1 the patient's clinical course.
- 2 Q. And you have, in the past, diagnosed
- 3 ADEM --
- 4 A. Yes.

- 5 Q. -- in your patients? And you said that
- 6 it's mostly seen in children.
- 7 A. More often in children than in adults.
- 8 Q. Why is that?
- 9 A. Probably relates to the fact that
- 10 children may be more susceptible to viral illnesses
- 11 and get them more frequently. It's certainly the
- 12 case that they're exposed to more vaccinations than
- 13 adults.
- 14 Q. What kind of viral illnesses cause
- 15 ADEM?
- 16 A. There's a wide list of viral types that
- 17 can cause it. The response is thought to be an
- 18 autoimmune response where the body responds to an
- 19 infection, sometimes mistaking its own tissues for
- 20 the virus to be destroyed, so it's not specific to
- 21 a particular virus type.
- 22 Q. Let me go back to what you have
- 23 reviewed prior to preparing your opinion in this
- 24 case. You've indicated you reviewed the three
- volumes of Mrs. Parker's medical records?
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- 1 A. Yes.
- 2 Q. Did you review anything else?
- 3 A. No, not specifically. I did bring with

- 4 me two references that are -- are current
- 5 authoritative sources that look at both the
- 6 clinical aspect of ADEM and the neuroradiologic
- 7 aspect of ADEM, but I've not reviewed any specific
- 8 scientific studies or other literature.
- 9 Q. Now, you indicated that -- and maybe
- 10 I'm interpreting this, but tell me if I'm correct
- 11 here -- that it's -- this diagnosis is essentially
- 12 one of exclusion, you rule out certain other
- 13 diagnoses before you get to ADEM; is that --
- 14 A. Well, I agree and disagree with that
- 15 statement. It is true that, to responsibly make
- 16 that diagnosis, you need to rule out things that
- 17 mimic it and that is the process of going through
- 18 differential diagnosis, but it's also true that
- 19 there needs to be a certain evolution of events, a
- 20 certain clinical appearance, certain timing of
- 21 events that is -- is consistent with ADEM.
- What it lacks is a single laboratory
- 23 test that is confirmatory that makes it possible
- 24 for us to easily diagnose it with certainty and to
- 25 the exclusion of other disorders.
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- 1 Q. So tell me, how do you -- how would you
- 2 go about diagnosing ADEM in a patient?

- 3 A. Well, the first issue is to look at the
- 4 clinical course of the patient, what has been the
- 5 spectrum and timing of symptoms that unfold. While
- 6 some cases of ADEM may have just a very particular
- 7 symptom and that one symptom only, most cases tend
- 8 to involve a variety of symptoms.
- 9 For example, in Mrs. Parker's case,
- 10 there were symptoms of unsteadiness or ataxia,
- 11 symptoms of confusion, symptoms of apraxia, being
- 12 unable to do common tasks with which she'd
- 13 previously been familiar, symptoms of sensory
- 14 impairment, sensories of weakness -- symptoms of
- 15 weakness.
- 16 The multifocal or multifaceted nature
- 17 of the symptoms suggests first that there's a
- 18 process that involves more than one particular area
- 19 of the brain, so that tends to suggest a disorder
- 20 like ADEM as opposed to a disorder like stroke that
- 21 may involve just one particular area.
- 22 Once characteristic clinical profile is
- 23 observed, there is a search for appropriate
- 24 clinical antecedents, had there been a previous
- 25 viral illness, had there been a previous exposure
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DAVID A. GRIESEMER - EX. BY MR. SICILIANO

1 to a vaccine, which occurs in the majority of the

- 2 cases but doesn't occur in all cases.
- 3 And then the final step is to exclude
- 4 those disorders that I've previously mentioned that
- 5 could masquerade as ADEM.
- 6 Q. Now, how do you go about excluding the
- 7 infectious encephalopathy --
- 8 A. Well --
- 9 Q. -- or infectious encephalitis?
- 10 A. Right. The easiest way to address that
- 11 is by looking at spinal fluid through a spinal tap
- 12 to determine whether there are any inflammatory
- 13 cells or abnormal chemistries in the cerebral
- 14 spinal fluid that may indicate infection. That was
- done in Mrs. Parker's case, and there was no clear
- 16 evidence of inflammation or infection based upon
- 17 the spinal fluid.
- 18 Looking at other disorders like
- 19 multiple sclerosis, her physicians looked at other
- 20 factors in the spinal fluid looking specifically
- 21 for something called oligoclonal bands that are
- 22 abnormal proteins often seen in the spinal fluid
- 23 with multiple sclerosis and that was not seen.
- 24 Another item I believe I mentioned was
- 25 vasculitis or an inflammation of blood vessels, so
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- 1 there are ways to screen for that, first looking
- 2 for things like an elevated sedimentation rate that
- 3 might suggest an inflammatory process. Mrs. Parker
- 4 did not have that.
- I believe, two months after her initial
- 6 presentation, her physicians at the Cleveland
- 7 Clinic proceeded to do an angiogram, looking
- 8 specifically for evidence of an inflammatory
- 9 vasculitis, and they did not find that.
- 10 I talked a little bit earlier about
- 11 multiple sclerosis which, by definition, involves
- 12 not only multiple regions of the brain but is a
- 13 disorder that occurs at multiple points in time.
- 14 And so the clinical course, Mrs. Parker revealed
- 15 nothing similar to this before and, to the best of
- 16 my knowledge, has received -- revealed nothing
- 17 similar to that subsequently.
- 18 The records that I have suggest that
- 19 she had an illness that progressed to a point of
- 20 considerable severity and then gradually improved,
- 21 giving us the temporal characteristics of a
- 22 monophasic illness consistent with ADEM.
- Q. For folks that have ADEM, do they
- 24 normally recover?
- 25 A. The recovery is often good but also
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- 1 often incomplete. In my experience, just
- 2 estimating, I would say that patients recover 80 to
- 3 90 percent of their previous ability. And these
- 4 may be motor abilities, they may be cognitive
- 5 abilities.
- 6 Q. And have you examined anything in the
- 7 recent medical records of Ms. Parker that gives you
- 8 any idea of the kind of recovery she has undergone?
- 9 A. I don't feel I have current records at
- 10 the moment that would let me answer that question
- 11 well.
- 12 Q. Have you ever treated any patient where
- 13 you believed the ADEM was caused by some kind of
- 14 vaccine?
- 15 A. Yes.
- 16 Q. What kind of vaccines?
- 17 A. I think, in the pediatric population,
- 18 it would be DPT or MMR vaccines.
- 19 Q. Have you ever treated any patient who
- 20 you believed developed ADEM as a result of
- 21 receiving an influenza vaccine?
- 22 A. I don't believe so. I would find that
- 23 a relatively uncommon occurrence.
- Q. Why do you say that?
- 25 A. Well, first because I haven't seen it,
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- and second, it doesn't happen commonly enough that 1
- 2 it dissuades people from using the vaccine.
- 3 Q. Are you aware of any epidemiological
- 4 study that has linked influenza vaccine and ADEM in
- 5 a causal relationship?
- 6 A. No, but an epidemiological study that
- would establish causation for an infrequent
- 8 occurrence would require an extraordinarily large
- number of patients to be extensive enough to 9
- identify the effect. 10
- 11 Q. You're not an epidemiologist?
- 12 Α. No.
- 13 Q. I'm trying to understand on what basis
- 14 you have come up with an opinion that Ms. Parker's
- 15 ADM -- ADEM was caused by an influenza vaccine, so
- that -- let me walk you through that. You've never 16
- treated anyone with ADEM where you have diagnosed 17
- it following an influenza vaccine? 18
- 19 A. That's correct.
- 20 Q. And you have -- have you?
- 21 MR. NAMEI: Excuse me, I don't want to
- 22 object, but are you assuming that the ADEM that is
- 23 caused by the influenza vaccine would be different
- 24 from ADEM that may be caused by, you know, some
- 25 other problem?
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- 1 MR. SICILIANO: No, no, I --
- 2 MR. NAMEI: Oh, okay.
- 3 MR. SICILIANO: -- I'm just asking --
- 4 I'm trying to understand the basis for
- 5 Dr. Griesemer's opinion --
- 6 MR. NAMEI: Okay.
- 7 MR. SICILIANO: -- so I want him to
- 8 walk me through this.
- 9 BY MR. SICILIANO:
- 10 Q. You're not aware of any epidemiological
- 11 study in peer reviewed medical literature that has
- 12 ever indicated that there's a cause and effect
- 13 relationship between influenza vaccine and ADEM?
- 14 A. That's correct.
- Q. What is the basis for your opinion in
- 16 this case that Ms. Parker developed ADEM following
- 17 the influenza vaccine?
- 18 A. Well, first, we have evidence that she
- 19 received an influenza vaccine. Second, we have
- 20 evidence of symptoms heralding ADEM that begin two
- 21 days later. Third, we have a characteristic
- 22 clinical course of ADEM. Fourth, we have clinical
- 23 experience that says, in most cases, ADEM follows
- 24 viral illness or vaccination. And finally, we have
- 25 no evidence of alternative viral illness or

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31

- 1 alternative vaccination in temporal proximity to
- 2 her symptoms.
- 3 Q. Are there etiopathic causes for ADEM?
- 4 A. There are some cases in which the cause
- 5 is not easily identifiable, yes.
- 6 Q. And have you treated either adults or
- 7 children with ADEM when you did not know what
- 8 caused the ADEM in that patient?
- 9 A. I have. So the question at hand is,
- 10 given the fact that she had an immunization and the
- 11 fact that she had ADEM, I can draw one of two
- 12 conclusions: I can conclude that there is no
- 13 relationship whatsoever between these two events,
- 14 or I can conclude that there is a relationship
- 15 between these two events. And based upon the
- 16 preponderance of medical literature and my
- 17 experience, I believe that it's more likely than
- 18 not that they are related.
- 19 Q. Okay, I want to go and explore the
- 20 preponderance of medical literature.
- 21 A. All right.
- 22 Q. Tell me what there -- what exists in
- 23 the medical literature that leads you to the
- 24 conclusion or the opinion in this case that the
- 25 influenza vaccine that she received caused her to

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32

- 1 develop ADEM.
- 2 A. As I indicated earlier, I have not
- 3 reviewed any of the early scientific studies
- concerning ADEM. What I'm reflecting is the
- 5 current standard of clinical practice. Any --
- 6 Q. Tell me, what's that? I don't know
- 7 what that is.
- 8 A. What that means is, in the teaching
- about ADEM, it is taught to neurologists and 9
- 10 neuroradiologists that immunizations can be a cause
- 11 for ADEM and that influenza immunization is among
- 12 those causes.
- Q. I understand that's what's being 13
- 14 taught. I'm trying to explore what's the basis for
- 15 that.
- 16 A. Most likely clinical experience.
- 17 Q. All right. Would you agree that, in
- 18 order to prove a cause and effect relationship
- 19 between any antigen and a disease, that you need
- 20 some epidemiological proof that supports that
- 21 relationship?
- 22 A. Well, there are different types of
- 23 proof. There is scientific evidence that comes
- 24 from pathological specimens, tissue that's been

- 25 biopsied. There is epidemiologic evidence that
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- 1 makes it statistically probable that there's a
- 2 cause and effect relationship.
- 3 While both of those types of evidence
- 4 push us to a 95 to 97 percent certainty of cause
- 5 and effect relationship, neither of those are
- 6 presently available in this case. There is a
- 7 different standard for scientific proof than there
- 8 is for clinical proof than there is for
- 9 medical/legal proof, and to confuse the standards
- 10 is a little disingenuous.
- 11 You know, clinically, we make a cause
- 12 and effect relationship where it seems probable and
- 13 clinically appropriate. That's what the physicians
- 14 at the Cleveland Clinic did in caring for
- 15 Mrs. Parker. In reviewing the records and their
- 16 notes, I concur that that's an appropriate
- 17 conclusion to draw.
- Now, I admit that that does not adhere
- 19 to the level of scientific proof that I would
- 20 submit to a peer reviewed journal for publication,
- 21 but I also assert that it exceeds the level of
- 22 proof necessary in a medical/legal setting.
- Q. Why do you say that?

- A. Because I think that the medical/legal
- 25 standard is more likely than not, and I think the
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- 1 clinical standard that we've seen in this
- 2 particular case is very probably the case.
- 3 Q. Do you have any appreciation for how
- 4 many influenza vaccines over the last 25 years have
- 5 been administered to both children and adults? In
- 6 the United States, let's state.
- 7 A. I would assume that it's an
- 8 extraordinary number.
- 9 Q. And are you aware that, at least since
- 10 1976, that governmental agencies like the CDC have
- 11 engaged in surveillance of adverse effects from or
- 12 allegedly from influenza vaccines?
- 13 A. And I would assume that to be the case.
- Q. And with all of those assumptions,
- 15 you're not aware that any -- there has been any
- 16 medical epidemiological evidence that influenza
- 17 vaccine, which has been studied for a long time and
- 18 given to millions and millions of people, has been
- 19 associated in a cause and effect relationship with
- 20 ADEM?
- 21 A. I'm not aware that any of that has been
- 22 published; however, that fact does not change the

- 23 observation that Mrs. Parker received a vaccine,
- 24 nor does it change the observation that she had an
- 25 episode of ADEM.

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35

- 1 Q. Is it fair to say that the basis for
- 2 your opinion in this case that the influenza
- 3 vaccine that she received caused her ADEM is the
- 4 temporal relationship between her receiving the
- 5 vaccine and her development, in your opinion, of
- 6 symptoms of ADEM?
- 7 A. I believe that's an important factor.
- 8 I think the other factor is the knowledge and
- 9 understanding that ADEM, as a clinical disease, is
- 10 typically triggered by a viral illness or a
- 11 vaccination. So there's more than just a temporal
- 12 relationship or coincidence; there is in fact the
- 13 need for there to be some inciting event. And, in
- 14 the absence of alternative triggers, the
- 15 vaccination seems the most likely inciting event.
- 16 Q. How, in your opinion, does influenza
- 17 vaccine trigger ADEM?
- 18 A. I don't have the knowledge of an
- 19 immunologist, but my understanding is that a
- 20 vaccine or a component of the vaccine may trigger
- 21 perturbations in T cell function, perhaps

- 22 suppressing the subpopulation of T lymphocytes that
- 23 quiet or control the immune response.
- 24 And when those T cells are suppressed,
- 25 the more aggressive T cells that remain can
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- 1 initiate the immunological response. I would have
- 2 to defer to an immunologist who works on a daily
- 3 basis with what the triggers are for the
- 4 immunological reaction.
- 5 Q. Do all vaccines act alike?
- 6 A. In what regard?
- 7 Q. In the kind of reactions that a human
- 8 would have. For example, we've already agreed that
- 9 there are -- there are no epidemiological studies
- 10 linking influenza vaccine to ADEM. I assume that
- 11 you believe that there are -- there is evidence in
- 12 the literature that other vaccines may cause ADEM.
- 13 A. I'm not aware that there's
- 14 epidemiologic evidence in the literature.
- 15 Epidemiology is a very useful tool that links
- 16 causative factors with outcomes, but in order for
- 17 it to have sufficient power to demonstrate a
- 18 response, there have to be a sufficient number of
- 19 cases surveyed. I am not an epidemiologist, but
- 20 epidemiologic studies are just one of several

- 21 approaches to establishing cause and effect
- 22 relationships.
- MR. NAMEI: Can we take a break?
- MR. SICILIANO: Sure.
- 25 (A recess transpired.)
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- 1 (DFT. EXH. 3, Affidavit, was marked for
- 2 identification.)
- 3 BY MR. SICILIANO:
- 4 Q. Doctor, I'm handing you what has been
- 5 marked as Defendant's Exhibit 3. (Tendering) Can
- 6 you identify that for the record?
- 7 A. This appears to be my Affidavit with
- 8 opinions concerning this case.
- 9 Q. I want to go over this with you. How
- 10 was this prepared?
- 11 A. I believe the initial draft was
- 12 prepared by Mr. Namei's office in response to
- 13 feedback I had given him after reviewing the
- 14 records. I had the opportunity to review it. I
- 15 believe there were some minor changes made before I
- 16 signed it.
- 17 Q. I want to go over some portions of
- 18 Defendant's Exhibit 3 with you --
- 19 A. Certainly.

- 20 Q. -- beginning with number --
- 21 MR. NAMEI: Do you have an extra copy?
- MR. SICILIANO: Sure.
- MR. NAMEI: Thanks.
- MR. SICILIANO: I'm sorry. (Tendering)
- 25 BY MR. SICILIANO:
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- 1 Q. Numbered paragraph 5, 5b, it says,
- 2 Ms. Parker was free of neurological illness or
- 3 impairment prior to October 12th, 1998. What's the
- 4 basis for that statement?
- 5 A. Based first on past medical history at
- 6 the time she was admitted to the hospital, based
- 7 second upon her level of function as a teacher
- 8 prior to developing this illness. I think those
- 9 are primarily the two sources.
- 10 Q. Did you review any medical records of
- 11 her medical history prior to October of 1998?
- 12 A. Yes, I believe I did have medical
- 13 records. There's -- in the medical records, she
- 14 has a history of high blood pressure dating back to
- 15 1986, a history of diabetes dating back to 1993 --
- 16 did I say 1986?
- 17 THE COURT REPORTER: Yes.
- 18 THE WITNESS: Okay. She had been

- 19 treated for migraine headaches, and she had
- 20 problems with increased weight. So there was clear
- 21 documentation of problems in her medical history,
- 22 but there was no documentation of neurological
- 23 problems.
- 24 BY MR. SICILIANO:
- 25 Q. Can diabetes lead to neurological
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- 1 problems?
- 2 A. It can, yes.
- 3 Q. Are migraine headaches some evidence of
- 4 a neurological problem?
- 5 A. Migraine headaches are evidence of
- 6 neurologic dysfunction. It wouldn't typically
- 7 cause the kind of impairment that she had. And we
- 8 did have record of a normal CT scan done back in
- 9 1993 as part of a workup for her migraines.
- 10 Q. The other subparts contained in
- 11 paragraph 5, did you obtain those facts from your
- 12 analysis of the medical records?
- 13 A. I believe most of these are derived
- 14 from either my notes or points that were made in
- 15 the initial Complaint that are documented in the
- 16 medical record.
- 17 Q. Of these, what would you say are the

- 18 most important facts that lead you to the diagnosis
- 19 in this case of ADEM in Ms. Parker?
- 20 A. Well, one important fact is the
- 21 progressive evolution of symptoms over time.
- 22 Another important fact is the variety of
- 23 symptomatology that complicates involvement of
- 24 different parts of the central nervous system
- 25 rather than one part.

40

- 1 Q. What does that mean? Tell me what that
- 2 means.
- A. Well, for example, she had difficulty
- 4 with balance and her walking. That would involve a
- 5 different part of the nervous system than the
- 6 region causing her sense of numbness or her left
- 7 arm weakness. It's important, in looking at her
- 8 case and in making a diagnosis of ADEM, that she
- 9 has a diffuse or multifocal involvement of the
- 10 brain. That makes it less likely that we're
- 11 dealing with something localized to one region such
- 12 as a brain tumor or a stroke.
- 13 The multifocal nature of the problem is
- 14 consistent with ADEM. That's borne out, too, with
- 15 some of the neuroimaging studies that demonstrate a
- 16 variety of irregularities or abnormalities

- 17 involving different areas.
- 18 Q. What would you typically expect to see
- in an MRI or other imaging studies in patients who
- 20 are suffering from ADEM?
- 21 A. Typically, one sees multiple areas of
- 22 abnormal signal in the white matter region. It
- 23 tends to occur in regions right around draining
- 24 veins in the brain. It's somewhat different than
- 25 the pattern in multiple sclerosis where the white
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- 1 matter abnormalities are right adjacent to the
- 2 ventricles or the spinal fluid flow regions.
- 3 The abnormalities appear to be of a
- 4 couple types. There are abnormalities that are
- 5 indicative of demyelination, and there are
- 6 abnormalities indicative of breakdown of
- 7 blood-brain barrier. And you may see both types of
- 8 abnormalities, the -- the latter suggested by the
- 9 presence of enhancement when gadolinium is given.
- 10 Not all cases of ADEM, however, have
- 11 evidence of abnormal neuroimaging, particularly
- 12 those that involve ataxia or coordination problems.
- 13 Primarily, they are less likely to show
- 14 neuroimaging abnormalities.
- 15 Q. I take it you reviewed the imaging

- 16 studies for Ms. Parker.
- 17 A. I reviewed the reports of the imaging
- 18 studies. Before I would testify in a trial
- 19 setting, I would insist on reviewing the films
- 20 themselves.
- 21 Q. Is there anything -- and maybe what
- 22 I'll do is I'll go over that with you, the imaging
- 23 reports, but is there anything in the imaging
- 24 studies that you recall now that seems to prove or
- 25 suggest to you that this isn't ADEM?
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- 1 A. Yes, there appeared to be what were
- 2 described as multiple nodules of abnormal signal in
- 3 the white matter of the centrum semiovale, and I
- 4 think those findings are consistent with ADEM.
- 5 There is a report -- I believe it was in
- 6 December -- of an area of abnormality involving the
- 7 frontal lobe that had some element of hemorrhage
- 8 involved in that. That is somewhat atypical for
- 9 ADEM.
- 10 There's a -- there's a related entity
- 11 called acute hemorrhagic leukoencephalitis that's
- 12 often considered a more severe form of ADEM in
- 13 which case you see a small degree of hemorrhage.
- 14 It's unclear to me whether or not that frontal lobe

- 15 abnormality seen in December is a manifestation of
- 16 this more severe cousin of ADEM or not.
- I don't think it's prudent to look at
- 18 just imaging studies and, on imaging studies alone,
- 19 say that this is ADEM or this is not ADEM.
- 20 Radiologists typically say, this is consistent with
- 21 the clinical picture of ADEM or it's inconsistent
- 22 with it, but, like in all things, we consider the
- 23 neuroimaging along with the laboratory evidence
- 24 along with the clinical course to arrive at a
- 25 clinical diagnosis.
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- 1 Q. Have you ever diagnosed ADEM where you
- 2 found no evidence of ADEM in the neuroimaging
- 3 studies?
- 4 A. I don't have a recollection of
- 5 personally having completely normal imaging, but
- 6 that may be an issue of timing as well, but, no, I
- 7 think in -- in my experience, most of the studies
- 8 have been abnormal.
- 9 Q. And that's part of your analysis when
- 10 doing your differential diagnosis, is to review and
- 11 analyze neuroimaging studies to determine whether
- 12 they are consistent with this diagnosis?
- 13 A. That's part of the picture, yes.

- 14 Q. In addition to the clinical picture
- 15 that you also are reviewing in connection with
- 16 making your diagnosis?
- 17 A. Right.
- 18 Q. Is there anything else that you
- 19 reviewed in making the diagnosis of ADEM?
- 20 A. Other than the clinical course --
- 21 Q. Clinical and --
- 22 A. -- the laboratory studies and the
- 23 neuroimaging?
- Q. Right.
- 25 A. No, that pretty much encompasses my
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- 1 practice of neurology.
- 2 Q. I'm going to again refer to Defendant's
- 3 Exhibit 3 and ask you to -- I'll refer you to
- 4 paragraph 6 of the Affidavit, which is your
- 5 opinion.
- 6 A. Yes.
- 7 Q. And why don't you read that for the
- 8 record and then tell me what the basis of your
- 9 opinion is. I think you've said it, but let's go
- 10 ahead and say that again.
- 11 A. Paragraph 6: Based upon my review of
- 12 Luann Parker's records, I state that, within a

- 13 reasonable degree of medical and scientific
- 14 certainty, her symptoms associated with ADEM (Acute
- 15 disseminated encephalomyelitis) were caused by her
- 16 vaccine received in October of 1998. Furthermore,
- 17 additional symptoms associated with steroid
- 18 treatment of ADEM represent secondary effects
- 19 following the vaccination.
- Q. Tell me the basis for that opinion.
- 21 A. As you said, we've already covered this
- 22 in a sense. The basis for my opinion is that she
- 23 had a clinical course that is consistent with ADEM,
- 24 she had laboratory studies that were consistent,
- 25 she had no --

45

- 1 Q. Can I stop you there?
- 2 A. Yes.
- 3 Q. Tell me what laboratory studies were
- 4 consistent with ADEM.
- 5 A. We talked earlier about the spinal
- 6 fluid studies that did not show evidence of an
- 7 infectious encephalitis. We talked earlier about
- 8 immunological studies that -- like sed rate -- that
- 9 ruled out vasculitis, a whole host of other
- 10 laboratory studies done in looking for vasculitis,
- 11 looking for stroke. We discussed earlier the

- 12 normal angiography ruling out vasculitis as well.
- 13 So many of the studies that are consistent with
- 14 ADEM are consistent because they have successfully
- 15 ruled out other -- other diagnoses.
- We've also talked about the probability
- 17 that ADEM occurs specific -- occurs following a
- 18 specific trigger, a viral infection or vaccination,
- 19 and we've established that an influenza vaccination
- 20 was given two days before the onset of her
- 21 symptoms. So, to the best of my recollection,
- 22 that's the basis for my opinion.
- 23 Q. We haven't talked about the second part
- 24 of your opinion concerning the additional symptoms
- 25 associated with steroid treatment.
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- 1 A. Yes.
- 2 Q. Can you explain what you mean by that?
- 3 A. It is not clear how best to treat ADEM;
- 4 it's a difficult and challenging disorder. Because
- 5 it has some similarities with multiple sclerosis,
- 6 some physicians reasonably conclude that treating
- 7 with high-dose steroids may be an effective way to
- 8 mitigate some of the symptoms.
- 9 So Mrs. Parker's treating physicians
- 10 made a decision to treat her with steroids because

- 11 they were concerned about her clinical condition.
- 12 What they found was that she developed a new set of
- 13 symptoms while on steroid therapy that basically
- 14 had to do with confusion, disorientation, basically
- 15 psychiatric-like symptoms.
- Now, it's certainly the case that such
- 17 symptoms may occur directly as the result of ADEM,
- 18 although that's quite uncommon. It's also the case
- 19 that such symptoms can occur as a consequence of
- 20 steroid therapy, which her physicians felt was
- 21 indicated in her case. So I was not prepared to
- 22 conclude that her additional symptoms were directly
- 23 referable to the ADEM but may have been caused by
- 24 an intermediary of the requisite treatment.
- 25 Q. So I understand this, some of her
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- 1 psychosis-like symptoms you're not saying were
- 2 directly caused by ADEM but perhaps caused by the
- 3 treatment that she received for the ADEM?
- 4 A. That's right. I don't have a way to
- 5 convincingly distinguish between those two.
- 6 Q. Does ADEM, is that -- is it a
- 7 consequence of ADEM that someone will develop a
- 8 psychosis?
- 9 A. It can be, but it's uncommon.

- 10 (DFT. EXH. 4, FluzonePackage Insert,
- was marked for identification.)
- 12 BY MR. SICILIANO:
- Q. Doctor, you have been provided with
- 14 what has been marked as Defendant's Exhibit 4. Can
- 15 you identify that for the record?
- 16 A. This is labeled, Influenza Virus
- 17 Vaccine USP Trivalent Types A and B marketed under
- 18 the name Fluzone, and it appears to be an
- 19 FDA-approved package insert for the immunization.
- Q. For the vaccine --
- 21 A. Yes.
- 22 Q. -- that was administered to Luann
- 23 Parker?
- 24 A. I only note that it says 1998-1999
- 25 formula and that was the time when she received the
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- 1 vaccine.
- 2 Q. You've indicated that you've prescribed
- 3 or recommended influenza vaccine before?
- 4 A. That's correct.
- 5 Q. Have you ever read the package insert
- 6 for influenza vaccine?
- A. I'm sure, at one time, I have read it,
- 8 yes.

- 9 Q. I just want to call your attention to
- 10 the section on adverse reactions and specifically
- 11 call your attention to a paragraph on page 6 of
- 12 this package insert.
- 13 A. Yes.
- 14 Q. The fourth paragraph down, beginning
- 15 with, neurological disorders.
- 16 A. Yes.
- 17 Q. Could you read that paragraph for the
- 18 record, please?
- 19 A. Yes. It says, neurological disorders
- 20 temporally associated with influenza vaccination
- 21 such as encephalopathy optic neuritis, partial
- 22 facial paralysis and brachial plexus neuropathy
- 23 have been reported; however, no cause and effect
- 24 has been established. Almost all persons affected
- 25 were adults, and the described clinical reactions
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- 1 began as soon as a few hours and as late as two
- 2 weeks after vaccination. Full recovery was almost
- 3 always reported.
- 4 Q. Doctor, do you consider that statement
- 5 an accurate statement of the medical -- wait a
- 6 minute, strike all that. Do you consider that
- 7 statement contained in the package insert accurate?

- 8 A. As I indicated earlier, I've not
- 9 reviewed the literature; specifically, I've not
- 10 reviewed the two studies cited or footnoted with
- 11 that statement. It may well be that there are an
- 12 insufficient number of cases for epidemiologic
- 13 study to establish a cause and effect relationship.
- 14 I have no reason to disagree with that.
- 15 Q. Is the encephalitis that we are talking
- 16 about, would that be encompassed in the description
- 17 of encephalopathy in that paragraph?
- 18 A. Encephalopathy is a very broad term
- 19 that basically refers to brain dysfunction of a
- 20 variety of causes, infectious or metabolic, and I
- 21 believe that it would encompass what we've
- 22 specifically been talking about, ADEM.
- Q. Do you intend to offer any opinions
- 24 on -- as to the accuracy or the adequacy of the
- 25 package insert marked as Defendant's Exhibit 4?
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- 1 A. No, that's beyond my area of expertise.
- 2 MR. SICILIANO: Let's go off the record
- 3 a second.
- 4 (Off-the-record conference.)
- 5 (DFT. EXH. 5, Test Results Summary
- 6 dated 12/05/93, was marked for

| 7  | identification.)                                     |
|----|--|
| 8  | (DFT. EXH. 6, Verified Radiology                     |
| 9  | Results dated $10/14/98$ , was marked for            |
| 10 | identification.)                                     |
| 11 | (DFT. EXH. 7, Wellington Diagnostic                  |
| 12 | Center Report dated October 14, 1998,                |
| 13 | was marked for identification.)                      |
| 14 | (DFT. EXH. 8, Radiology Report dated                 |
| 15 | 10/22/98, was marked for                             |
| 16 | identification.)                                     |
| 17 | (DFT. EXH. 9, Radiology Report dated                 |
| 18 | 10/23/98, was marked for                             |
| 19 | identification.)                                     |
| 20 | (DFT. EXH. 10, Radiology Report dated                |
| 21 | 10/28/98, was marked for                             |
| 22 | identification.)                                     |
| 23 | (DFT. EXH. 11, Riverhills Healthcare,                |
| 24 | Inc. Encounter Report dated 12/28/1998,              |
| 25 | was marked for identification.)                      |
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|    |  |
|    | 51   |
|    | DAVID A. GRIESEMER - EX. BY MR. SICILIANO            |
| 1  | (DFT. EXH. 12, Wellington Diagnostic                 |
| 2  | Center Report dated February 26, 1999,               |
| 3  | was marked for identification.)                      |
| 4  | (DFT. EXH. 13, Wellington Diagnostic                 |
| 5  | Center Report dated June 25, 1999, was               |

- 6 marked for identification.)
- 7 BY MR. SICILIANO:
- 8 Q. Doctor, you've been handed what has
- 9 been marked as Defendant's Exhibits 5, 6, 7, 8, 9,
- 10 10, 11, 12 and 13. And in general, can you tell
- 11 me -- can you identify those records for the
- 12 record?
- 13 A. These appear to be neuroimaging
- 14 studies, both CT and MRI, for Mrs. Parker, the
- 15 earliest being December 5th, 1993 and the last
- 16 being June 25th, 1999.
- 17 Q. Let's start with Defendant's Exhibit 5.
- 18 Just identify that one for the record.
- 19 A. All right, this is a CT head scan done
- 20 in December 1993. My recollection is that this was
- 21 done in the context of an evaluation for migraine
- 22 headaches. The study was read as normal.
- 23 Q. And after reviewing it, do you have
- 24 any --
- 25 (The proceedings were interrupted.)
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- 1 BY MR. SICILIANO:
- 2 Q. Is it your impression that this is a
- 3 normal CAT scan of her brain?
- 4 A. It has been read by the radiologist as

- 5 a normal study.
- 6 Q. Okay. I want you to look at
- 7 Defendant's Exhibit 6 and tell me what that is.
- 8 A. The next study is also a CT scan done
- 9 without contrast. The date is October 13th, 1998.
- 10 That would be three days after she received her flu
- 11 vaccination. This study is recorded as somewhat
- 12 abnormal with mild dilatation of the cerebral sulci
- 13 and cerebral ventricles.
- 14 What this is saying is that there is a
- 15 little bit more space within and around the brain
- 16 than one would expect for a patient of -- of this
- 17 age perhaps. The radiologist considers this
- 18 consistent with mild cerebral atrophy. We have no
- 19 evidence that this study was compared with the one
- 20 done five years previously.
- 21 Q. And I want to ask you about this study.
- 22 The radiologist reading the CT study indicates that
- 23 it is consistent with a mild cerebral atrophy.
- 24 Tell us what that means.
- 25 A. When one speaks of atrophy, we're
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- 1 talking about either a diffuse or a localized
- 2 dropout of neurons so that there is not the
- 3 abundance of brain cells that one would expect for

- 4 that age.
- 5 Q. What's -- what causes that?
- 6 A. There can be a variety of different
- 7 causes. In older patients, we can see the
- 8 development of moderate cerebral atrophy as a
- 9 manifestation of a dementia, of Alzheimer's
- 10 disease. In someone who has had a hypoxic ischemic
- 11 insult, say after a cardiac arrest, we can see a
- 12 moderate to severe atrophy as a consequence of
- 13 previous insult to the neurons in the brain.
- 14 We don't have a great deal of
- 15 information about whether this represents a
- 16 significant integral change. Being able to compare
- 17 the two CAT scans would be very helpful in that
- 18 regard. Some radiologists are more sensitive in
- 19 calling issues of atrophy. This may very well be
- 20 the case, although, in my experience too, sometimes
- 21 increased subarachnoid space or subarachnoid fluid
- 22 or, put more simply, more space between the brain
- 23 and the skull can be misinterpreted as brain
- 24 atrophy.
- 25 Q. You don't know at this point?
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- 1 A. Having not looked at the film, I can do
- 2 nothing other than accept the report at face value.

- 3 What I can say is that none of the symptoms that
- 4 Mrs. Parker was manifesting at that time or
- 5 manifested over the next few weeks could be
- 6 satisfactorily explained by the presence of
- 7 cerebral atrophy alone.
- 8 Q. To put it more in lay terms, would
- 9 cerebral atrophy be like loss of brain volume?
- 10 A. Yes.
- 11 Q. And at least this radiologist, looking
- 12 at her CAT scan on October 13th, 1998, believed
- 13 that she has less brain volume than a person of her
- 14 age would normally expect to have?
- 15 A. That's correct.
- 16 Q. What kind of symptoms would you have
- 17 with a loss of brain volume?
- 18 A. Probably the most sensitive symptom
- 19 might be memory loss, short-term memory loss.
- Q. Anything else?
- 21 A. That would -- that would be the initial
- 22 one. I would not expect a patient with atrophy to
- 23 present with the clinical history reported here of
- 24 numbness and dizziness.
- 25 Q. The brain atrophy reported in this CT
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DAVID A. GRIESEMER - EX. BY MR. SICILIANO

1 scan, would that at all be related to receiving the

- 2 influenza vaccine?
- 3 A. Probably not, in that atrophy, as
- 4 implied in this report, is -- is the reflection of
- 5 an ongoing longer-term process. I would not expect
- 6 atrophy to develop over three days.
- 7 Q. Let's look at Defendant's Exhibit 7 and
- 8 tell me what that is.
- 9 A. Exhibit 7 is an MRI scan of the brain
- 10 done with and without gadolinium. It's done --
- 11 Q. Okay, tell me what that means.
- 12 A. Let me just finish.
- Q. Okay, go ahead.
- 14 A. -- it's done one day after the CT scan
- 15 that we just discussed.
- 16 O. So that's October 14th?
- 17 A. That's correct. Gadolinium is a
- 18 paramagnetic contrast material that permits us to
- 19 look at the integrity of the blood-brain barrier.
- 20 In other words, can something get out of the
- 21 bloodstream into the brain in violation of what is
- 22 usually supposed to occur, which is a tight barrier
- 23 between the two. The presence of enhancement with
- 24 gadolinium tends to show us a breakdown of that
- 25 blood-brain barrier, so it gives another look or
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- 1 another dimension to our look at -- at brain
- 2 function.
- In this study, the radiologist notes
- 4 first abnormal signal in the posterior parietal
- 5 regions of the brain. Parietal area of the brain
- 6 is that which interprets or regulates or integrates
- 7 sensory phenomena, among other functions. And --
- 8 and while the clinical correlation here on the
- 9 study is apraxia, it may be that these parietal
- 10 findings explain symptoms reported elsewhere of
- 11 numbness or tingling.
- 12 What is notable is that the greatest
- 13 area of abnormality appears to be on the surface of
- 14 the brain, on the covering of the brain, the
- 15 meninges, as opposed to the deep white matter which
- 16 we discussed previously as most characteristic of
- 17 ADEM. However, the radiologist notes that, on the
- 18 T2 weighted images, which tend to be more sensitive
- 19 than T1 weighed images, he notes small areas of
- 20 abnormal increased signal are noted in the adjacent
- 21 brain parenchyma, primarily involving the cortex.
- 22 That is the gray matter.
- 23 As -- as a footnote, while we talk
- 24 about ADEM as being a disorder of the white matter,
- 25 that's not exclusively the case. We know that
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- 1 patients with ADEM can present with seizures, which
- 2 is a phenomenon involving the cortex or the gray
- 3 matter. So while ADEM focuses on demyelinating and
- 4 is predominantly a white matter disorder, it's not
- 5 exclusively so.
- 6 Q. Is there anything in this imaging study
- 7 taken on October 14th, 1998 that leads one to the
- 8 diagnosis of ADEM?
- 9 A. I would say, at this point, we have not
- 10 seen characteristic changes of ADEM, that's
- 11 correct.
- 12 Q. Talk to me a little bit about the
- 13 meninges. What would be the cause of the changes
- in the meninges that are reflected in here?
- 15 A. Again, we're looking at abnormal
- 16 enhancement, so we're talk -- probably talking
- 17 about some sort of inflammation with some increased
- 18 blood flow to that area. It could be, at this
- 19 point, an infectious inflammation, or it could be a
- 20 noninfectious autoimmune type inflammation. We
- 21 don't have enough information in this MRI to
- 22 distinguish between those two. And that's probably
- 23 what would lead a clinician to do a spinal tap and
- 24 make sure we're not dealing with a viral infection
- 25 or bacterial infection.
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- 1 Q. The radiologist in this case has set
- 2 forth in his opinion -- or her opinion possible
- 3 etiologies which include sarcoid; infection, either
- 4 viral or inflammatory; ischemic changes, including
- 5 vasculitis.
- A. Right.
- 7 Q. Doesn't list ADEM?
- 8 A. However, item 3 under her opinion,
- 9 which she doesn't give as much prominence to, does
- 10 talk about this patchy abnormality in the white
- 11 matter, which, at this point, is nonspecific but
- 12 really heralds what we will be seeing later as the
- 13 findings of ADEM. I think, in this particular
- 14 study, the emphasis is on perhaps the more dramatic
- 15 acute early inflammatory phase before some of the
- 16 autoimmune part has really kicked in.
- 17 As -- as we'll discuss later, this
- 18 meningeal enhancement is a transient phenomenon or
- 19 phase, even as her clinical condition is worsening,
- 20 and the clinical condition tends to be -- tends to
- 21 track better with the increased abnormality in the
- 22 white matter cells.
- 23 Q. Let's go to Defendant's Exhibit 8 and
- 24 identify that for me.
- 25 A. Can we take a short break?

59

- 1 MR. SICILIANO: Absolutely.
- 2 (A recess transpired.)
- 3 THE WITNESS: Exhibit 8?
- 4 BY MR. SICILIANO:
- 5 Q. Yes.
- 6 A. Exhibit 8 is also an MRI scan with and
- 7 without gadolinium. It was done six days after the
- 8 previous MRI scan. What has appeared in the
- 9 interval are multiple small nodular areas in the
- 10 deep white matter of both parietal lobes. The
- 11 radiologist indicates that most of these do not
- 12 enhance.
- 13 Q. Tell me what that means.
- 14 A. What it means is that they don't light
- 15 up with the gadolinium, suggesting that that is
- 16 evidence of demyelinization causing the abnormal
- 17 signal, but there is not yet evidence of breakdown
- 18 of the blood-brain barrier allowing the gadolinium
- 19 dye to cause them to light up.
- 20 As she correctly points out, these
- 21 findings in and of themselves are nonspecific.
- 22 They could represent a demyelinating disease, they
- 23 could represent ischemia, they could represent
- 24 infarction. The thing to note, however, they're
- 25 distributed in a manner that's in -- unlikely to be

60

- ischemic. First of all, they're punctate or
- 2 regional or multiple, so that we're not seeing a
- 3 ledge or a large area of ischemic brain that you
- would observe if a blood vessel were blocked, but 4
- 5 this radiologist is not extending herself any
- 6 further than just the images itself permit.
- 7 Now, she also notes that, higher in the
- 8 parietal lobe, that there are some lesions that do
- enhance, indicating that they would represent more 9
- severe involvement where there was both 10
- demyelinization and breakdown of the blood-brain 11
- 12 barrier. Good news is there's not significant
- swelling around these or mass effect that could 13
- 14 cause secondary problems. She speculates they
- 15 could be metastases, although that seems highly
- unlikely given the evolution of what we've seen in 16
- 17 the clinical course.
- She notes finally that there is still 18
- 19 some of this enhancement of the meninges, which is
- 20 a very nonspecific finding that in no way
- 21 establishes or refutes the presence of ADEM.
- 22 O. What's the cause of that?
- 23 It could be as simple as just increased
- 2.4 blood flow to the meninges. It's sort of a

- 25 nonspecific inflammatory response. It does not
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- 1 suggest a specific disease process, and it's
- 2 physically remote from changes that we're seeing in
- 3 the deep white matter of the brain.
- 4 It's not clear that that is a
- 5 clinically significant finding in that we did not
- 6 see it spreading to involve the meninges or the
- 7 covering of the whole brain as we might with an
- 8 encephalitis or a meningitis, and it just seems to
- 9 be that particular region.
- 10 Q. But that's not consistent with the
- 11 ADEM?
- 12 A. Nor is it inconsistent with the ADEM.
- 13 It doesn't impact my impression one way or the
- 14 other about that in the same way that mild cerebral
- 15 atrophy doesn't affect my impression one way or the
- 16 other.
- 17 Q. In looking at the October 22nd, 1998
- 18 study which is Defendant's Exhibit 8, is there more
- 19 involvement of white matter than before?
- 20 A. There was an addendum dictated the
- 21 following day where, in retrospect, she suggests
- 22 that there was not a dramatic change over those
- 23 between those two lesions.

- MR. NAMEI: Is that exhibit 10 that
- 25 she's --
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- 1 BY MR. SICILIANO:
- Q. That's exhibit 9, right; isn't that
- 3 correct?
- 4 A. Right, that's correct, exhibit 9 is --
- 5 is the addendum. It's unclear whether or not she's
- 6 adopted a different standard for interpretation or
- 7 reporting, but she has made a conscientious effort
- 8 to go back and review the two films and, in fact,
- 9 when looking back, sees the same abnormalities in
- 10  $\,$  the earlier film that she has reported on the film
- 11 six days later.
- 12 Q. So is the answer there really isn't a
- 13 change from the prior film on the --
- 14 A. Well, she --
- 15 Q. -- as far as the involvement of the
- 16 white matter?
- 17 A. -- she appears to conclude there has
- 18 not yet been a dramatic change.
- 19 Q. She does say in Defendant's Exhibit 9,
- 20 which is the addendum dated October 23rd, 1998,
- 21 prime differential consideration is inflammatory
- 22 processes involving the meninges in this area, as

- 23 meningitis which may be present on a viral or
- 24 bacterial phase. Can you tell me what that means
- 25 or how you interpret it?

63

- 1 A. Well, she's basically saying what we've
- 2 already discussed, is that the cause of this
- 3 meningeal enhancement is unclear; the differential
- 4 diagnosis includes viral encephalitis, includes
- 5 bacterial meningitis, includes those things that --
- 6 that need to be looked for. And she may not be
- 7 aware that spinal fluid studies were in fact
- 8 obtained on October 22nd and that, you know, there
- 9 was only one white blood cell in the spinal fluid
- 10 and that's well within the normal range.
- 11 So there seems to be some suggestion of
- 12 an infectious process radiologically, but there is
- 13 not confirmation of an infectious process when the
- 14 physicians went back to look. So the radiologist
- 15 is doing her job in terms of providing warning
- 16 about things that the clinicians need to be looking
- 17 for, but her suspicion and her concern does not
- 18 establish the diagnosis.
- 19 Q. Let me go back to Defendant's Exhibit
- 20 8. The second paragraph of her opinion there says,
- 21 there are, in addition, a few nodular and ovoid

- 22 enhancing lesions identified in the bilateral high
- 23 parietal lobes. What are those, what's a lesion?
- A. A lesion is a generic word for a spot
- 25 or an abnormality. It really has no specificity in
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- 1 terms of cause. What she's simply saying is that
- 2 there are some nodular spots deep in the white
- 3 matter close to the center of the brain, and, as
- 4 you come closer to the surface of the brain, you
- 5 not only have some more of these nodular spots, but
- 6 you have some that she describes as ovoid, and some
- 7 of those are now enhancing.
- 8 So the closer you get to the surface of
- 9 the brain, the more these areas of abnormality
- 10 include breakdown of the blood-brain barrier as
- 11 well as demyelination.
- 12 Q. And what would be an explanation for
- 13 that?
- 14 A. Could be different levels of severity
- 15 of dysfunction within the lesion, it could
- 16 represent a slight difference of timing of the
- 17 appearance of the abnormalities, you know, where
- 18 perhaps some of them are more advanced, and,
- 19 therefore, there has been more breakdown of the
- 20 blood-brain barrier. It doesn't necessarily imply

- 21 two entirely different causes of the abnormality.
- 22 Q. Are those specific findings consistent
- 23 with ADEM?
- 24 A. Yes.
- Q. Are they inconsistent with it at all?
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- 1 A. I don't believe so. There is -- there
- 2 is evidence of demyelinating lesions, and there is
- 3 evidence of gadolinium enhancement. Both may be
- 4 seen with ADEM. Now, I -- I have to state that
- 5 I've not actually looked at the films, I'm reading
- 6 between the lines of what looks like a thoughtful
- 7 neuroradiologist.
- Q. Are those findings typical of ADEM?
- 9 A. They're more typical of ADEM than they
- 10 would be of multiple sclerosis, say, where the
- 11 nodular demyelinating areas tend to be clustered
- 12 more centrally around the ventricles. What we
- don't see is perhaps an area perhaps as large as
- 14 one might expect with ADEM, although she doesn't
- 15 really provide any specific information about the
- 16 number or the size of these lesions.
- 17 Q. Let's go to Defendant's Exhibit 10 and
- 18 tell me what that is.
- 19 A. 10 is yet another MRI scan done six

- 20 days after the last MRI scan. At this time, the
- 21 patient's reported to have left arm weakness and
- 22 difficulty walking. Now, in this particular
- 23 report, the radiologist says that the ventricles
- 24 and subarachnoid spaces are normal in appearance.
- 25 That seems at some conflict with the CT scan of

66

- 1 October 13th where the ventricles and cerebral
- 2 sulci were felt to be enlarged. There is
- 3 concordance, however, in that a degree of atrophy
- 4 in the sylvian fissure is -- is still present.
- 5 Q. And that's the loss of brain volume?
- A. Right, sylvian fissure is the space
- 7 between the temporal lobe and the frontal lobe. So
- 8 that -- that is more generous, implying perhaps
- 9 some atrophy of the temporal lobe. Again, multiple
- 10 small nodular nonenhancing lesions are seen in the
- 11 deep white matter.
- 12 Q. And it says there, not associated with
- 13 acute mass effect. What does that mean or how
- 14 would you interpret that?
- 15 A. Mass effect is secondary swelling and
- 16 displacement of normal brain structures because of
- 17 swelling. Classic example would be a brain tumor
- 18 which may be relatively modest in size and yet have

- 19 surrounding it an area of edema or swelling or
- 20 increased fluid within the brain. And that
- 21 swelling can actually push brain structures out of
- 22 the way and -- and cause symptoms secondary to
- 23 displacement of brain structures.
- Now, if we think back to the
- 25 pathophysiology of ADEM, what we see is an

67

- 1 inflammatory -- I'm sorry, a demyelinating response
- 2 around the veins deep in the substance of the
- 3 brain. So if we're looking at a process that
- 4 begins in the region of the veins and then spreads
- 5 out around that, we would expect to see multiple
- 6 small crops or areas of demyelinization
- 7 representing the involvement of these multiple
- 8 veins.
- 9 It doesn't make sense that, if that's
- 10 your pathophysiology, that you would have any big
- 11 lesion surrounded by a lot of edema that would
- 12 cause mass effect. What the verbiage in the report
- 13 is -- is probably more standard template, just
- 14 saying, there's no mass effect, there's no
- 15 displacement of immediate structures. One wouldn't
- 16 expect that given what she's described is there.
- 17 She does note that, at this point,

- 18 there seems to be some diminution in the -- in the
- 19 number of these area abnormalities -- areas of
- 20 abnormality. The -- the more superficial ones
- 21 closer to the surface of the brain don't appear to
- 22 have diminished much at all, however. And at this
- 23 point, the meningeal enhancement that's really been
- 24 the focus of the attention on the last two MRI
- 25 scans seems to be abating.

68

- 1 Q. Under her conclusions, she writes, no
- 2 integral change in multiple small nodular areas of
- 3 high signal intensity in the deep white matter of
- 4 the deep parietal lobes without associated
- 5 enhancement probably represents small areas of
- 6 ischemia or infarction or could represent plaques
- 7 related to a demyelinating process, stable in
- 8 appearance on all MRIs compared. How do you
- 9 interpret that?
- 10 A. Well, there's a little bit of
- 11 inconsistency. In the body of the report, the
- 12 radiologist says, there appears to have been some
- 13 interval decrease and irregular areas of
- 14 enhancement in the leptomeningeal region, so there
- 15 is some improvement of the study. But you were
- 16 talking about the de --

- 17 Q. Number 2.
- 18 A. -- demyelinating regions. I'm sorry,
- 19 would you repeat your question?
- 20 Q. Number 2 under her conclusions,
- 21 paragraph 2.
- 22 A. Right. Again, her differential
- 23 diagnosis is reasonable; these are things that need
- 24 to be considered. They do appear to be relatively
- 25 stable at this point.
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- 1 Q. So they're not getting worse?
- 2 A. They don't appear to be getting worse,
- 3 and there's no areas of new enhancement, that's
- 4 correct.
- 5 Q. In a typical ADEM, would you expect the
- 6 white matter enhancement or lesions to be getting
- 7 worse or better at this stage in time?
- 8 A. I would -- well, I would expect there
- 9 to be a period of worsening and then a period of
- 10 improvement. The period of improvement, however,
- 11 can really be measured over weeks to months, it's
- 12 not going to occur over days because, remember,
- 13 there has been demyelinization, you know, the --
- 14 the myelin around the nerves has been destroyed,
- 15 you know, it's got to be remanufactured and

- 16 repaired. You know, the blood-brain barrier has
- 17 broken down; that's got to be repaired. It's --
- 18 that repair isn't going to occur over a matter of
- 19 days.
- Q. Well, what is typical for the
- 21 progressive nature of ADEM? How long does it take
- 22 normally?
- 23 A. I mean, usually the -- the symptoms
- 24 evolve over a week or two or three, I mean, it's --
- 25 it's relatively acute, but again, it's important to
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- 1 remember that radiologic abnormality is not always
- 2 present with ADEM. And so, if you have a spectrum
- 3 between no radiologic abnormalities and classic
- 4 radiologic abnormalities, then you're going to have
- 5 all radiant in between, and I think that, you know,
- 6 that may -- that may best describe what we're
- 7 seeing here.
- 8 Q. But typically the course of ADEM is you
- 9 have a period, maybe days or a week or so or a
- 10 couple of weeks, of worsening and then maybe a
- 11 longer period of gradual improvement?
- 12 A. I will agree with that.
- 13 Q. And you --
- 14 MR. NAMEI: Just for clarification, are

- 15 you talking about symptoms or are you talking about
- 16 the radiological manifestation, getting more sick?
- 17 MR. SICILIANO: Well, I'm actually
- 18 asking about both.
- MR. NAMEI: Because he answered it
- 20 about radiological, but sometimes there's radiant
- 21 in the spectrum that, you know, you can and you
- 22 cannot see, whereas the symptoms getting worse and
- 23 then they get better, it's like a bell curve.
- 24 BY MR. SICILIANO:
- Q. Let's go to Defendant's Exhibit 11 and
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- 1 identify that for the record.
- 2 A. Exhibit 11 is also an MRI. However,
- 3 this one was done December 28th, so it's
- 4 approximately two months after the last MRI scan.
- 5 And this shows several changes. What we know is,
- 6 over that two-month interval -- but we don't know
- 7 when during that two-month interval -- there have
- 8 been a couple of changes.
- 9 The first change is one of the
- 10 enhancing areas noted previously now has some
- 11 hemorrhage in it.
- 12 Q. Meaning bleeding?
- 13 A. That's right. So in -- we know that

- 14 first there was an area of demyelinization.
- 15 Second, because this area enhanced, we know that
- 16 there was a breakdown of the blood-brain barrier.
- 17 And now we're seeing evidence of actual blood that
- 18 has disbursed into this lesion, you know, itself
- 19 having crossed the blood-brain barrier. So that is
- 20 a new change.
- 21 What we don't have is information from
- 22 the radiologist that permits us to date this blood.
- 23 Neuroradiologists can often do that as the
- 24 hemoglobin degenerates over time, and they can give
- 25 you some sense of the duration of -- of the
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- 1 hemorrhage, how long it's been there.
- 2 Q. Would it be typical that an ADEM would
- 3 have this kind of hemorrhaging a couple of months
- 4 now after the first onset?
- 5 A. Well, is it typical? No. But there
- 6 are two points to be made. The first is that the
- 7 study was done two months later. That doesn't
- 8 necessarily tell us that the hemorrhaging occurred
- 9 two months later. That's why I was talking about
- 10 the importance of trying to date the hemorrhage.
- 11 The second, as I mentioned a while
- 12 back, there is a variant of ADEM called this acute

- 13 hemorrhagic leukoencephalitis that is actually a
- 14 more severe form of ADEM. In that particular
- 15 disorder, this hemorrhagic transformation is seen
- 16 more characteristically. So, no, this is not a
- 17 common finding in ADEM but suggests the possibility
- 18 of perhaps a more malignant course than we
- 19 typically see with ADEM. Alternatively, it could
- 20 represent some interplay between ADEM and her
- 21 underlying conditions.
- Q. Explain that.
- 23 A. Well, we know that the patient has
- 24 hypertension, for example. It could be that, in
- 25 this region of breakdown of the blood-brain
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- 1 barrier, that a patient with hypertension is more
- 2 likely to develop a secondary hemorrhage into that
- 3 area of involvement than a patient that doesn't
- 4 have hypertension. I mean, that's pure spec --
- 5 speculation on my part. I don't have enough
- 6 information to -- to tell.
- 7 The second thing that is of concern is
- 8 that there appears to be progression of the
- 9 demyelinating process in the white matter. And
- 10 there's -- there is sort of an irony here in that,
- 11 while there appears to be more demyelinization,

- 12 there doesn't appear to be more enhancement. So
- 13 there's not progression in the breakdown of the
- 14 blood-brain barrier, but there has been evidence of
- 15 demyelinization.
- Now, one possible explanation for that
- 17 could have been that the impairment of the
- 18 blood-brain barrier has now resolved so that
- 19 there's no more enhancement so that the lesion is
- 20 no longer acute and what we're seeing two months
- 21 later is the chronic appearance, you know, of what
- 22 could have happened a month or six weeks
- 23 previously. Again, I have no way to know that for
- 24 certain.
- 25 Q. But is it typical -- again, we're
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- talking now December 28th, 1998 where there is a
- 2 progression of the white matter disease -- is that
- 3 typical in ADEM?
- 4 A. I would say that it is not typical;
- 5 however, when faced with providing an alternative
- 6 explanation or an alternative pathophysiology or an
- 7 alternative disease that has yet to be diagnosed,
- 8 described or discovered, it seems to be the most
- 9 reasonable explanation, and given the congruence of
- 10 clinical findings and radiological findings.

- 11 Q. If you were presented with this kind of
- 12 finding now, more than two months after the initial
- 13 onset, what would you be thinking about as far as
- 14 an alternative diagnosis?
- 15 A. Well, first of all, as I mentioned, we
- 16 need to be careful not to fall into the trap of
- 17 assuming that these changes occurred two months
- 18 afterwards, but with that -- but with that caution,
- 19 we would be concerned about other demyelinating
- 20 diseases. Does this represent a type of multiple
- 21 sclerosis that we do know occurs at multiple points
- 22 in time?
- But again, the distinction is between a
- 24 monophasic illness and an illness that has multiple
- 25 events. What is unusual is that this is un --
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- 1 fairly protracted, but I don't believe that it's
- 2 with -- that it's outside of reasonable experience
- 3 with ADEM because we do know that, in some cases of
- 4 ADEM, the recovery phase, you know, extends for a
- 5 year.
- 6 Q. Have you treated anyone that you
- 7 diagnosed with ADEM that had a course consistent
- 8 with this?
- 9 A. I have certainly had patients where, a

- 10 month into the process, they were getting worse
- 11 when I was -- when I'd been telling the family they
- 12 ought to be getting better, but I can't say that I
- 13 have had a patient that had been exactly like this
- 14 with the combination of the hemorrhagic
- 15 transformation and the combination of the what
- 16 appear to be late findings of -- of increased white
- 17 matter signal.
- 18 But I -- but I don't believe that this
- 19 pushes me beyond my comfort level in calling this
- 20 ADEM, and I don't think it pushed her treating
- 21 physicians beyond their comfort level in calling it
- 22 that. It still represents the most feasible
- 23 explanation for her clinical course.
- Q. But if you were one of the treating
- 25 physicians here, would you agree that these kinds
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- 1 of findings would have caused you to be concerned
- 2 that she does not have ADEM and that she may have
- 3 something else?
- 4 A. Oh, they were very concerned. I mean,
- 5 that's why they launched on an exhaustive workup to
- 6 make sure there wasn't something else. You know,
- 7 this was the timing of her really definitive
- 8 evaluation where they looked at vasculitis, they

- 9 looked at risk factors for stroke, they looked at
- 10 all of these other things that it could be other
- 11 than ADEM, because there was some concern about
- 12 timing.
- 13 And I think it's to their credit that
- 14 they responded just as you suggest, that they go
- 15 back and reconsider the original diagnosis,
- 16 which -- which they very responsibly did.
- 17 Q. Let's look at Defendant's Exhibit 12
- 18 and tell me what that is.
- 19 A. Defense exhibit 12 is an MRI dated
- 20 February 26th, 1999, so that is going to be two
- 21 months after the last MRI scan. Again, I've not
- 22 looked at the study, and it's somewhat more
- 23 difficult to read between the lines, but several
- 24 points are made. One is that there appears to be
- 25 some areas of enhancement, again referring to

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77

- 1 breakdown of the blood-brain barrier, perhaps in a
- 2 slightly broader distribution than was seen before.
- We also see evidence of new abnormality
- 4 now seen in the thalamus, which is a deep gray
- 5 matter structure in the center of the brain. The
- 6 thalamus is what integrates all of the sensory
- 7 input into the brain before relaying it off to the

- 8 cortex. Involvement of the thalamus is often seen
- 9 in ADEM -- let me correct that: Is sometimes seen
- 10 in ADEM. Often we see it earlier than we do in
- 11 this case.
- 12 Another finding that's new are the
- 13 possibility of petechial hemorrhages or pinpoint
- 14 hemorrhages seen in regions of the brain. Now,
- 15 it's unclear whether these are areas of hemorrhage
- 16 that are superimposed or occurring in the areas of
- 17 abnormal demyelination or if this is a separate
- 18 process. I can't tell that from the report.
- 19 One thing we can -- are concerned with
- 20 with petechial hemorrhages, it is possibly a
- 21 hypertensive change in the brain, so if there had
- 22 been a period of uncontrolled hypertension, that
- 23 might account for the petechia.
- Q. Would you again agree that this kind of
- 25 finding now in February of -- end of February of
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- 1 1999 isn't typical of the normal course of ADEM if
- 2 she had it?
- A. As we're continuing to see changes
- 4 unfold this late, now four months after the initial
- 5 event, it's occurring at a time where the changes
- 6 may be less commonly seen with ADEM. The burden,

- 7 however, is still to offer an alternative
- 8 explanation of an intercurrent illness or another
- 9 process or an alternative process compared to what
- 10 we typically see with ADEM.
- Now, what we don't know is, has steroid
- 12 therapy that she's received during the course of
- 13 this treatment had some mitigating effect on the
- 14 timing or the evolution of the process, is the
- 15 immunological or autoimmune response that she has
- 16 more sluggish or more delayed than with the average
- 17 person for any number of reasons.
- But the key question is whether there
- 19 is anything that is substantively different that
- 20 suggests an alternative diagnosis, and it's not
- 21 clear to me that -- that we have evidence of an
- 22 alternative diagnosis because we have just worked
- 23 up, you know, in December, all of these
- 24 alternatives and -- and found nothing.
- Q. Let's look at Defendant's Exhibit 13.
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- 1 Tell me what that is.
- 2 A. 13 is now four months after the last
- 3 MRI or about eight months after the original
- 4 studies, so now we see that there are no new areas
- 5 of enhancement, we see that things are relatively

- 6 stable over the previous four months and that
- 7 whatever process seemed to be active accounting for
- 8 those February changes is now quiescent and -- and
- 9 stable. So --
- 10 Q. It's not getting worse?
- 11 A. It's not getting worse.
- 12 Q. Is it getting better?
- 13 A. At this point, there's no evidence that
- 14 these abnormal signals are going away or getting
- 15 better; however, it's not unusual for there to be
- 16 clinical improvement that antedates radiologic
- 17 improvement by months. A patient with multiple
- 18 sclerosis, for example, may have abnormal signal in
- 19 the brain long after they have recovered from the
- 20 attack of -- of MS.
- 21 So in -- in sum, what's atypical, if
- 22 you will, about these series of studies is that the
- 23 story plays out over a slightly longer period of
- 24 time than we typically see with ADEM, but it still
- 25 remains basically a monophasic illness with a
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- 1 period of worsening followed by a period of
- 2 stability and, I would presume, subsequently
- 3 followed by a period of improvement.
- 4 Although I don't have current medical

- 5 records, my understanding is that she has
- 6 clinically improved, and I would expect further
- 7 neuroimaging studies to be the same or to show some
- 8 mild improvement.
- 9 Q. You brought with you today a couple of
- 10 textbooks. Tell me what those are. You've marked
- 11 a couple of them too.
- 12 A. Right.
- 13 Q. Show me what you have marked too, but
- 14 go ahead --
- 15 A. One is -- one is simply a
- 16 neuroradiologist textbook, and the other is a
- 17 general neurology textbook. What I marked were
- 18 just the -- the citations that refer to ADEM. And,
- 19 you know, I didn't know whether that would be
- 20 relevant or helpful in today's deposition.
- 21 Q. Can we look at those? Let's just read
- 22 the -- the names of the books.
- 23 A. All right, the first one is Diagnostic
- 24 Neuroradiology by Anne Osborn. This is a very
- 25 standard classic neuroradiology textbook. The
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- 1 second one is one of two volumes of a neurologic
- 2 comprehensive text called Diseases of the Nervous
- 3 System, edited by Asbury, McKhann, McDonald,

- 4 Goadsby and McArthur.
- 5 Q. Let me look at the first one, please.
- 6 A. (Tendering)
- 7 (Off-the-record conference.)
- 8 BY MR. SICILIANO:
- 9 Q. Doctor, you brought with you today a
- 10 couple of textbooks. Why don't you just identify
- 11 the textbooks and the parts of textbooks that you
- 12 have noted and tell me why you brought them with
- 13 you today.
- 14 A. Not knowing whether it would be
- 15 beneficial or not, I brought references that
- 16 briefly cover the salient features of ADEM and the
- 17 neurologic -- I'm sorry, in the neuroradiologic
- 18 textbook, this spans pages 704 to 706.
- 19 Q. We just went over the neuroimaging
- 20 studies of Ms. Parker. Does that textbook indicate
- 21 that the neuroimaging studies that Ms. Parker has
- 22 are typical of ADEM?
- 23 A. Well, the textbook demonstrates nodular
- 24 subcortical lesions that may or may not enhance, as
- 25 occurred in Mrs. Parker's case. The textbook also
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- demonstrates some abnormalities of the thalamus
- 2 that Mrs. Parker developed later in her clinical

- 3 course. So, while I haven't actually seen her
- 4 images, based upon the reports, there seems to be
- 5 good concordance between the classic textbook
- 6 description of ADEM and what is reported in her
- 7 studies.
- 8 O. Does the textbook at all indicate the
- 9 influenza vaccine as a cause of ADEM?
- 10 A. The textbook, under the paragraph
- 11 etiology, says, ADEM occurs in several settings, as
- 12 follows... Item 3 of 4 says, following vaccination
- 13 against rabies, diphtheria, smallpox, tetanus,
- 14 typhoid or influenza.
- 15 Q. Okay, does it give any citation?
- 16 A. No, it does not.
- 17 Q. So you do not know what the basis for
- 18 that kind of statement in that textbook is?
- 19 A. That's correct.
- Q. Let's look at the second book you
- 21 brought with you. And again, I would like a copy
- 22 of the pages --
- 23 A. Sure.
- 24 (This page contains information to be
- 25 supplied by counsel and/or the deponent.)
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DAVID A. GRIESEMER - EX. BY MR. SICILIANO

1 BY MR. SICILIANO:

- 2 Q. -- that you referred to.
- 3 A. The second reference is from a
- 4 neurology text, and it discusses the clinical
- 5 course of the disorder. And it spans pages 1673 to
- 6 1674, and it summarizes information that has
- 7 appeared in the medical literature over the past
- 8 half century.
- 9 Q. There's another section you have noted
- 10 in this textbook.
- 11 A. There is. That basically talks about
- 12 immune mechanisms and neurologic disease, the role
- 13 of T cells. That is probably not as germane to our
- 14 discussion.
- 15 Q. What pages is that?
- 16 A. What I have flagged is page 1512 to
- 17 1513. That focuses mostly on the mechanisms or the
- 18 understanding to date of mechanisms of autoimmunity
- 19 or immunological problems in the central nervous
- 20 system.
- 21 Q. I understand you have reviewed the
- 22 affidavits of two of the Defendants' experts in
- 23 this case.
- 24 A. I believe three. I looked at
- 25 affidavits from Mark Shilling, William Paul Glezen
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- 1 and Richard Edward Latchaw.
- Q. I'll not ask you about Mark Shilling's,
- 3 but I will ask you about Dr. Glezen. Is there
- 4 anything in his opinion that you take issue with?
- 5 A. Well, his opinion does not seem to
- 6 address the clinical course of Mrs. Parker at all.
- 7 He simply says that the package insert is accurate
- 8 and provides adequate warning of potential adverse
- 9 effects.
- 11 but, you know, I will acknowledge that the insert
- 12 provides warning that, you know, the vaccine should
- 13 not be given to people with Guillain-Barre syndrome
- 14 and should not be given to people who have active
- 15 neurologic disease, presumably because there is
- 16 evidence that it has an adverse effect on those
- 17 conditions. I -- I really have no basis to -- to
- 18 disagree with him.
- 19 Q. Okay. Let's look at Dr. Latchaw's
- 20 opinion. Do you have any -- do you take issue with
- 21 his opinion?
- 22 A. Dr. Latchaw's opinion is as brief as
- 23 his CV is lengthy. I'm puzzled by Dr. Latchaw's
- 24 opinion because, while a radiologist, he is
- 25 offering judgment about clinical issues. And I
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- 1 obviously take exception to it because his opinion
- 2 is diametrically opposite to mine.
- 3 He provides no basis for his opinion,
- 4 nor does he offer an alternative plausible
- 5 explanation for Mrs. Parker's course. On the other
- 6 hand, I wouldn't expect a radiologist to be able to
- 7 offer a plausible alternative explanation for
- 8 Mrs. Parker's course; that's what a clinical
- 9 neurologist would do.
- 10 Q. One thing I didn't ask you about was
- 11 that, at least according to Mrs. Parker, she had
- 12 received influenza vaccine for a number of years
- 13 prior to this one in 1998. Does that provide you
- 14 with any indication of the cause and effect
- 15 relationship between the influenza vaccine and her
- 16 neurological course?
- 17 A. I don't know that that helps me one way
- 18 or the other, knowing that each annual vaccine is
- 19 slightly different from the other different viral
- 20 antigen, different vehicle. While it intuitively
- 21 may make sense that, if she's tolerated one, she
- 22 would tolerate them all, you know, experience just
- 23 doesn't seem to bear that out with vaccines in
- 24 general.
- 25 MR. SICILIANO: Let me look at my
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notes. I think we're done.
 1
 2
                (Off-the-record conference.)
 3
               MR. SICILIANO: I don't have anything
 4 further. Thank you, Doctor.
 5
                (The deposition was concluded at 12:11
 6
   p.m.)
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| 1  | SIGNATURE OF DEPONENT                             |
|----|---|
| 2  |   |
| 3  | I, the undersigned, DAVID A. GRIESEMER,           |
| 4  | do hereby certify that I have read the foregoing  |
| 5  | deposition and find it to be a true and accurate  |
| 6  | transcription of my testimony, with the following |
| 7  | corrections, if any:                              |
| 8  |   |
| 9  | PAGE LINE CHANGE REASON                           |
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| 20 | DAVID A. GRIESEMER Date                           |
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| 1  | CERTIFICATE OF REPORTER                           |
|----|---|
| 2  |   |
| 3  | I, Lisa F. Walkabout, Certified Shorthand         |
| 4  | Reporter and Notary Public for the State of South |
| 5  | Carolina at Large, do hereby certify that the     |
| 6  | foregoing transcript is a true, accurate, and     |
| 7  | complete record.                                  |
| 8  | I further certify that I am neither related       |
| 9  | to nor counsel for any party to the cause pending |
| 10 | or interested in the events thereof.              |
| 11 | Witness my hand, I have hereunto affixed my       |
| 12 | official seal this 4th day of August, 2003 at     |
| 13 | Charleston, Charleston County, South Carolina.    |
| 14 |   |
| 15 |   |
| 16 |   |
| 17 | Lisa F. Walkabout                                 |
| 18 | Court Reporter                                    |
| 19 | My Commission expires November 14, 2004           |
| 20 |   |
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| 22 |   |
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|----|---------|----------|------|---|------------|-------|----------|
|----|---------|----------|------|---|------------|-------|----------|

| 1  | INDEX                                   |      |
|----|---|------|
| 2  |   | Page |
| 3  | WITNESS/EXAMINATION                     |      |
| 4  | DAVID A. GRIESEMER                      |      |
| 5  | STIPULATION                             | 3    |
| 6  | EXAMINATION                             |      |
| 7  | BY MR. SICILIANO                        | 3    |
| 8  | SIGNATURE OF WITNESS                    | 87   |
| 9  | CERTIFICATE OF REPORTER                 | 88   |
| 10 |   |      |
| 11 | REQUESTED INFORMATION INDEX             |      |
| 12 |   | Page |
| 13 | Copy of marked pages of textbooks that  | 82   |
| 14 | Dr. Griesemer brought to the deposition |      |
| 15 |   |      |
| 16 |   |      |
| 17 |   |      |
| 18 |   |      |
| 19 |   |      |
| 20 |   |      |
| 21 |   |      |
| 22 |   |      |
| 23 |   |      |
| 24 |   |      |

# A. WILLIAM ROBERTS, JR., & ASSOCIATES (800) 743-DEPO

| 1        |      | EXHIBITS  |    |
|----------|------|---|----|
| 2        |      | Page  |    |
| 3        | DFT. | EXH. 1, Curriculum Vitae  | 12 |
| 4        | DFT. | EXH. 2, Typewritten Notes   | 19 |
| 5        | DFT. | EXH. 3, Affidavit   | 37 |
| 6        | DFT. | EXH. 4, Fluzone Package Insert  | 47 |
| 7        | DFT. | EXH. 5, Test Results Summary dated 12/05/93                               | 50 |
| 9        | DFT. | EXH. 6, Verified Radiology Results dated 10/14/98                         | 50 |
| 10       | DFT. | EXH. 7, Wellington Diagnostic Center<br>Report dated October 14, 1998     | 50 |
| 11       | DFT. | EXH. 8, Radiology Report dated 10/22/98                                   | 50 |
| 12       | DFT. | EXH. 9, Radiology Report dated 10/23/98                                   | 50 |
| 13       | DFT. | EXH. 10, Radiology Report dated 10/28/98                                  | 50 |
| 14<br>15 | DFT. | EXH. 11, Riverhills Healthcare, Inc.<br>Encounter Report dated 12/28/1998 | 50 |
| 16       | DFT. | EXH. 12, Wellington Diagnostic Center<br>Report dated February 26, 1999   | 51 |
| 17       | חבת  | EXH. 13, Wellington Diagnostic Center                                     | 51 |
| 18       | Dri. | Report dated June 25, 1999  | JI |
| 19       |      |   |    |
| 20       |      |   |    |
| 21       |      |   |    |
| 22       |      |   |    |
| 23       |      |   |    |

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